CAVRILOV, Anatoliy Nikolayevich, ed.

Sovremennoye sostoyaniye i naprovleniya razvitiya tekhnologii mashinostroyeniya i priborostroyeniya. Moskva, Mashgiz, 1960. 563 p. ilus., diagrs., graphs, tables. Includes bibiographies.

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	Maisfaibhin, Bul, Eqineer, Recent Devileysems in the Technology of Braing of Parts in Listrament Manufacture Card 1/6	Calculation for Accuracy in the Machining of Small, Module Calculation	English, A.S., Engineer. Methods of Calibrating Profilement Scales	4	Israelayer, P.D., Engineer. Cold Pressvorting of Metals in Small-Ins	Entimo, SAs, Cantidas of Parkatest Sciences, 7.7. Eclober, Engineer, and E.A. Ennester, Entimer. Seem Ways of Behating Labor Communication to Monfacture of Dies for Collab Preserving in Internate National Section 1988.	contained of fermical Sciences, and p.s. Robbins, Conferent Authors, Trobales Sciences, Conferent Sciences of Packeting on Auto-matic takes and Videntia Toric 7seld of Application	The Trumber   And   And	Character of annual engine value of the second control of the seco	woodskesij, kata Gardiats of Technical Sciences. E Transducers of Machanical Yalmes and Their Application	Other, M.A., Cardidate of Technical Sciences. Conditions for Improfing the Subtility of Magnetoelectric Learnments	Tythodteer, S.A., Candidate of Technical Sciences. Settenting The Taignithing of Sackhan in Senti-bonnie Spir Georic, Used in Serve Systems	During on University Caroline of Technical Sciences. Effect of During of University Numeri of Ball Dearings Used in Officeropic Entruments	production and to the application of two treats of extensions and section to send the section and section of the section of the certains in program control, ultramentary, and this last servicing of midals. The third section deals with her measurement with it is section to the section to the section to the section of mit folds the use of this monitor and section to observe the third section. So presculding and mentioned, before a scompany secund of the section. So presculding all mentions.	constant: The 23 retains deal with the present state and the outlook for the development of intrinser; manufacture and measurement of chalitys, for problems for design, construction, and manufacture of interiments are distanced in the first	PHICKE: The collection of articles is intended for scientific and technical personnel in the instrument industry.	Hai A.F. Gerrilor, Dottor of Probulcal Sciences, Professor; Tech. Ed.; A. Ta. Tillistor; Manging Ed. for Libertium on Mahine and Laterment Construction (Mangin): B.V. Polyovskiy, Engineer.	heartenery extensive Frage arbitis (Lestmont Manufacture and heartenert Schuling) Hoscow, Manbais, 1900. May p. Errate slip inserted. ),000 captes printed.	Filhernature of the stope of the strong pribary attracted the	ENTERTIONAL I SOUR ELECTRICAL			
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GAVRILOV, A.N., prof., doktor tekhn.nsuk; DEM TANYUK, F.S., prof., doktor tekhn.nauk; MITROFANOV, S.P., kand.tekhn.nauk; KORSAKOV, V.S., prof., doktor tekhn.nauk; IVANOV, D.P., doktor tekhn.nauk; STO-ROZHEV, M.V., kand.tekhn.nauk; MALOV, A.N., kand.tekhn.nauk; KUDRYAVTSEV, I.V., prof., doktor tekhn.nauk; SHNEYDER, Yu.G., kand.tekhn.neuk; SHUKHOV, Yu.V., dotsent; KAZAKOV, N.F., kand. tekhn.nauk; ZOLOTYKH, B.N., kand.tekhn.nauk; ROZENBERG, L.D., prof., doktor tekhn.nauk; YAKHIMOVICH, D.Ya., inzh.; NIKOLAYEV, G.A., prof., doktor tekhn.nauk; VLADZIYEVSKIY, A.P., doktor tekhn. nauk; SHAUMYAN, G.A., prof., doktor tekhn.nauk; KOSHKIN, L.N., kand.tekhn.nauk; BOBROV, V.P., kand.tekhn.nauk; NOVIKOV, M.P., kand.tekhn.nauk; VIKHMAN, V.S., kand.tekhn.nauk; DERBISHER, A.V., kand.tekhn.nauk; KLIMENKO, K.I., prof., doktor ekonom.nauk; VYATKIN, A.Ye., inzh.; SATEL', E.A., prof., doktor tekhn.nauk; FOFANOV, I.G., inzh.; MATVEYENKO, V.V., inzh.; KOCHETOVA, G.F., inzh., red.izd-va; EL'KIND, V.D., tekhn.red.; TIKHANOV, A.Ya., tekhn.red.

[Present status and trends of future development of technological processes in the manufacture of machinery and instruments] Sovremennoe sostoianie i napravleniia razvitiia tekhnologii mashinostroeniia i priborostroeniia. Moskva, Gos.nauchno-tekhn.izd-vo mashinostroit.lit-ry, 1960. 563 p. (MIRA 13:7) (Machinery industry--Technological innovations) (Automation)

S/115/60/000/06/28/031 B007/B014

AUTHORS:

Arutyunov, V. O., Gavrilov, A. N.

TITLE:

International Scientific and Technical Conference on Measuring Technique and Instrument Construction (IMEKO) in 1961

PERIODICAL:

Izmeritel'naya tekhnika, 1960, No. 6, pp. 61-62

TEXT: The First International Scientific and Technical Conference on Measuring Technique and Instrument Construction (IMEKO) was held in Budapest in November, 1958. It was organized by the Hungarian Scientific Society of Measuring Technique and Automation (MATE), the Polish Scientific and Technical Society (NOT), and the NTO Priborprom SSSR (NTO Priborprom USSR). It was attended by delegates from 18 countries. The Soviet delegation delivered 16 lectures out of 150. The proceedings of the Conference were published in "Acta IMEKO" (five volumes). At the end of 1959, more than 15 countries joined the International Organizing Committee, which held a meeting in Budapest from February 10 to 14, 1960, at which its composition was approved: representatives of Britain, Belgium, Bulgaria,

Card 1/3

International Scientific and Technical Conference on Measuring Technique and Instrument Construction (IMEKO) in 1961

S/115/60/000/06/28/031 B007/B014

Hungary, Eastern Germany, Denmark, Italy, Red China, Poland, Roumania, USSR, Czechoslovakia, and Sweden. The representatives of Austria, Albania, India, USA, France, German Federal Republic, and Yugoslavia are present at the Committee, but without a vote. At the suggestion of the Hungarian Society MATE, the Conference will take place in Budapest from June 15 to July 15, 1961. The following program was drawn up: The most important general lectures, lectures on important problems of measuring technique and instrument construction, and summarizing reports will be delivered at the Plenary Meetings. Lectures of general interest will be held at the Section of Calculation and Construction of Instruments, at the Section of Technology and Organization of Production, and at the Section of Electronic Devices. The work of the Section of Secondary Problems in Measuring Technique and Automation will be prepared in cooperation with the Technical Committee of the IFAC (International Federation of Automatic Control). The other seven sections will discuss instruments and techniques for the measurement of geometrical and mechanical quantities, time and frequency, heat-engineering quantities, ionizing radiation, instruments and techniques for physicochemical, electrical, magnetic, and radictechnical measurements.

Card 2/3

International Scientific and Technical Conference on Measuring Technique and Instrument Construction (IMEKO) in 1961

S/115/60/000/06/28/031 B007/B014

Languages at this Conference: English, German, Russian, and French. The lectures should be submitted in at least two languages (in duplicate). The lectures of Soviet scientists and engineers should be submitted to the District and Republic Administrations of NTO Priborprom. A Sovetskiy komitet IMEKO (Soviet Committee IMEKO) was established by the Presidium of NTO Priborprom for the preparation of this Conference.

Card 3/3

Second International Conference on Measuring Equipment and Instrument Manufacture. Izm.tekh. no.10:60-61 0 '61. (MIRA 14:11)

(Measuring instruments)

APPROVED FOR RELEASE: 08/23/2000 CIA-RDP86-00513R000514420019-5"

# PHASE I BOOK EXPLOITATION

sov/6143

- Gavrilov, Anatoliy Nikolayevich, Doctor of Technical Sciences, Professor
- Tekhnologiya aviatsionnogo priborostroyeniya (Technology of Aviation Instrument Making). 2d ed., rev. and enl. Moscow, Oborongiz, 1962. 472 p. 12,000 copies printed.
- Ed.: P. I. Bulovskiy, Doctor of Technical Sciences, Professor; Ed. of Publishing House: N. A. Gortsuyeva; Tech. Ed.: V. I. Oreshkina; Managing Ed.: S. D. Krasil'nikov, Engineer.
- PURPOSE: This textbook is intended for students of instrument making in aviation schools of higher technical education; it may also be useful to engineers and technicians working in industry.
- COVERAGE: Fundamentals in the planning of manufacturing processes applicable to the conditions and characteristics of aviation instrument making are presented, as well as the production technology of ordinary and special parts and the assembly of aviation Card 1/5

Technology of Aviation Instrument Making

SOV/6143

instruments. Particular attention is paid to problems of instrument quality and to increasing the economy of manufacture through the use of advanced production processes resulting from the widescale introduction of automation and mechanization. The book contains collected and systematized material which reflects the results of investigative study and production experience in various branches of Soviet and non-Soviet instrument making. No personalities are mentioned. There are 70 references: 47 Soviet, 14 English, 8 German, and 1 French.

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Foreword

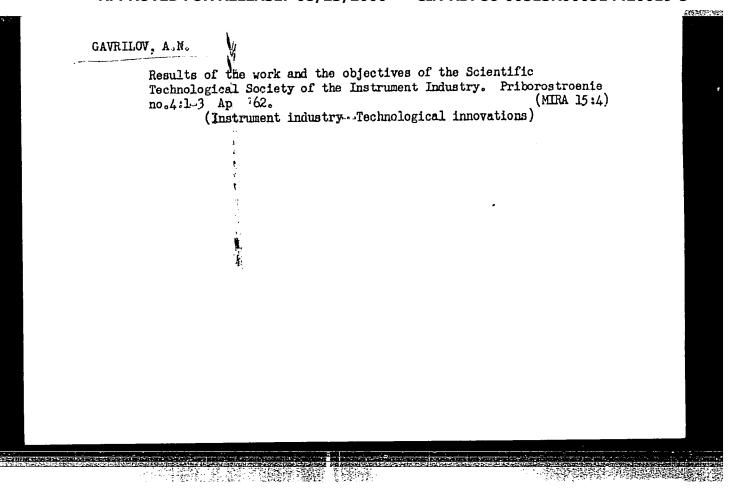
3

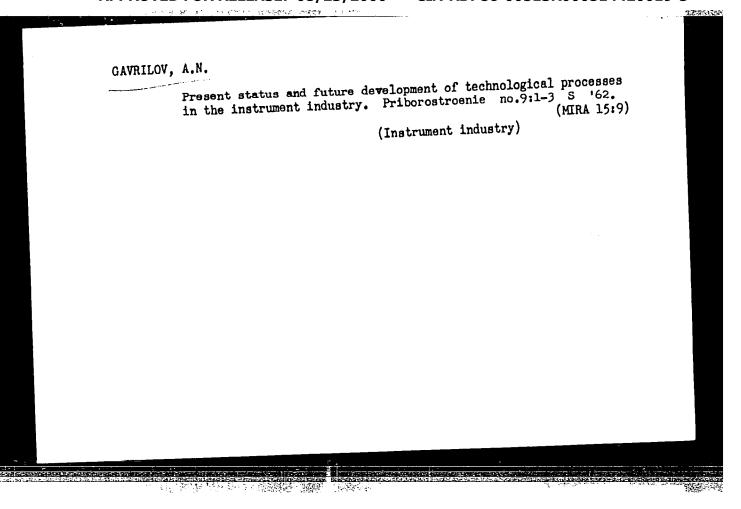
# PART I. FUNDAMENTALS IN THE PLANNING OF MANUFACTURING PROCESSES IN INSTRUMENT MAKING

Ch. I. Basic Concepts and Planning of the Manufacturing Propesses in Aviation Instrument Making

Ch. II. Machining Accuracy Card 2/5

15





ZOTOV, V.P.; SILUYANOV, V.G.; GUGINA, Ye.F.; AUERMAN, L.Ya.; ALEKHINA, M.S.;

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VAYNSHTEYN, V.O.; GAVRILOV, A.N.; GORBATOV, V.M.; GRITSENKO, N.N.;

DOLGUSHEVA, L.I.; YEDYGENOV, K.Ye.; ZHURAVLEVA. S.S.: ZACHESKIN,

Ya.A.; IVKIN, A.P.; IZOTOV, A.K.; LL'INSKIY, N.A.; IRINARKHOVA,

Ya.A.; IVKIN, A.R.; LYSOGGR, P.M.; LUPISH, A.T.; OLEYNIKOV, V.V.;

ORANZHEREYEVA, V.B.; PETROV, N.A.; PYATIBRATOV, M.A.; ROMANOV,

A.N.; RAUBE, P.V.; RYZHENKO, L.P.; SEMYKIN, A.A.; SHEFER, A.P.

G.IA.Ivanov; Obituary. NTO 4 no.10:39 0 '62. (MIRA 15:9)

(Ivanov, Georgii IAkovlevich, 1897-1962)

# "APPROVED FOR RELEASE: 08/23/2000

CIA-RDP86-00513R000514420019-5

GAVRILOV, A.N., doktor tekhn.nauk, prof.; KOVALEV, P.I.; KHOKHLOV, B.A.; ZHERDEV, N.F.; KASPEROVICH, N.S., inzh., red; SMIRNOVA, G.V., tekhn. red.

[Album of attachments for machine tools used in the manufacture of instruments] Al'bom prisposoblenii dlia metallorezhushchikh stankov, primeniaemykh v priborostroenii. Pod red. A.N.Gavrilova. Izd.2., ispr. i dop. Moskva, Mashgiz, 1963. 216 p.

(Machine tools-Attachments)

DANILEVSKIY, Vladimir Viktorovich; GAVRILOV, A.N., prof., doktor tekhn. nauk, retsenzent; KHOLIN, V.A., inzh., retsenzent; KUNIN, P.A., red.; VARGANOVA, A.N., red.izd-va; MURASHOVA, V.A., tekhn. red.

[Technology of the manufacture of machinery; general course] Tekhnologiia mashinostroeniia; obshchii kurs. Moskva, Vysshaia shkola, 1963. 505 p. (MIRA 17:2)

APPROVED FOR RELEASE: 08/23/2000 CIA-RDP86-00513R000514420019-5"

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BOOK EXPLOITATION

s/

Gavrilov, A. N.; Ushakov, N. N.; Tsvetkov, N. M.

Technology of Aviation Electrical Equipment (Tekhnologiya aviatsiomogo elektrooborudovaniya), Moscow, Oborongiz, 1963, 523 p., illus., biblio. Errata slip inserted. 10,000 copies printed.

TOPIC TAGS: electrical equipment, casting, cold stamping, hot stamping, plastic, ultrasonic treatment, machining, coating, bushing, gear, threaded part, spring, housing, permanent magnet, winding, rotor, assembly, automation

PURPOSE AND COVERAGE: The book presents the basic problems of designing the technological processes applicable to aviation electrical equipment construction, the technology of fabricating standard and special components, problems of assembly, mounting, and inspection of aircraft electrical equipment. It reflects the experience of domestic and foreign electrical equipment construction and the results of certain research. Great attention is given to raising the quality and lowering the cost of making components by using progressive technological processes, mechanization and automation. The book is a text for students in aviation higher educational institutions and departments and can be useful for workers in industry.

Cord A

BALAKSHIN, O.B., kand. tekhn. nauk; BYKHOVSKIY, M.L., prof., doktor tekhn. nauk; VOLODIN, Ye.I., kand. tekhn. nauk; GRIGOR'YEV, I.A., kand. tekhn.nauk; DRAUDIN-KRYLENKO, A.T., inzh.; IVANOV, A.G., kand. tekhn.nauk; KOZIOV, M.P., kand. tekhn. nauk; KOTAY, KOROTKOV, V.P., prof.; KOCHENOV, M.I., kand. tekhn. nauk; KUTAY, A.K., kand. tekhn. nauk; MARKOV N.N., kand. tekhn. nauk; PALEY, M.A., inzh.; RAYEMAN, N.S., kand. tekhn.nauk; ROSTOVYKH, A.Ya., kand. tekn. nauk; RUMYANTSEV, A.V., kand. tekhn.nauk; SARKIN, I.G., prof.; SMIRNOV, A.S., inzh.; TAYTS, B.A., prof., doktor tekhn. nauk; YAKUSHEV, A.I., prof., doktor tekhn. nauk; NESTEROV, V.D., inzh., nauchnyy red.; GHUDOV, V.A., inzh., nauchnyy red.; GAVPIIOV, A.N., doktor tekhn.nauk, prof., red.; BLAGOSKIONOVA; N.YAS, M.YAS, M.YAS, T.F., tekhn. red.

[Manufacture of instruments and means of automatic control: a manual in five volumes] Priborostroenie i sredstva avtomatiki; spravochnik v piati tomakh. Moskva, Gos.nauchno-tekhn.izd-vo mashinostroit. lit-ry. Vol.l.[Interchangeability and engineering measurements] Vzaimozameniaemost; i tekhnicheskie izmerenia. 1963. 568 p.

(Electronic measurements) (Automatic control)

GAVRILOV, Anatoliy Nikolayevich, doktor tekhn. nauk, prof.

Instrument industry today and tomorrow. NTO 5 no.llil2-15 N '63.
(MIRA 16:12)

1. Predsedatel' TSentral'nogo pravleniya Nauchno.tekhnicheskogo obshchestva priborestroitel'noy promyshlennosti.

# GAVRILOV, A. N.

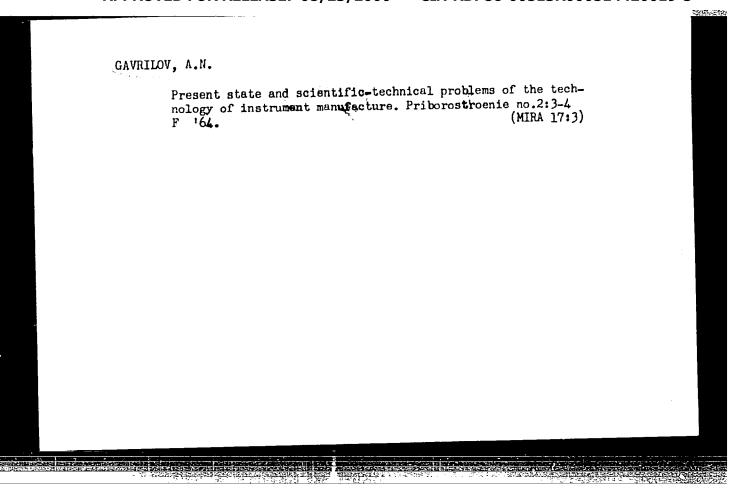
"The general status and the technical-scientific problems of manufacturing accuracy in the instrument industry."

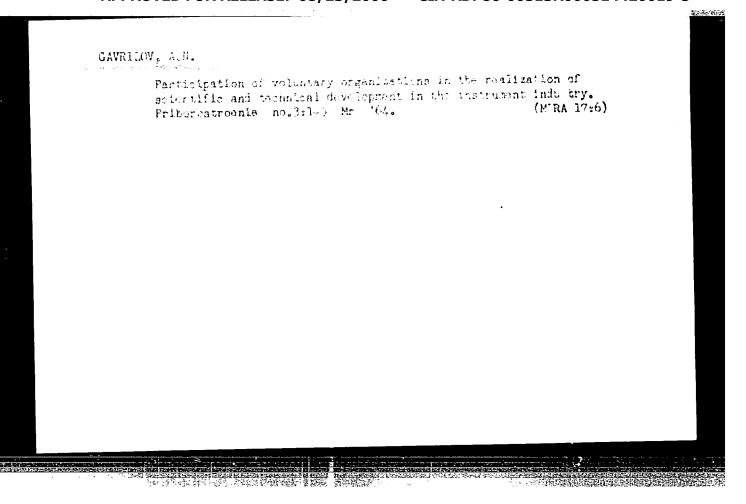
report submitted for the 3rd Intl Measurement Conf & 5th Intl Instruments & Measurements Conf, Stockholm, 14-19 Sep 64.

GAVRILOV, A.N., doktor tekhn. nauk, prof., otv. red.; YAKUSHEV,
A.I., doktor tekhn. nauk, prof., otv. red.; BURDUN, G.D.,
doktor tekhn. nauk, prof., otv. red.; DIKUSHIN, V.I.,
akademik, red.

[Precision, interchangeability and industrial measurements in the manufacture of machinery; transactions] Tochnost, vzaimozameniaemost, i tekhnicheskie izmereniia v mashinostroenii; trudy. Moskva, Izd-vo "Nauka," 1964. 386 p. (MIRA 17:6)

1. Soveshchaniye po tochnosti, vzaimozamenyayemosti i tekhnicheskim izmereniyam v mashinostroyenii. 2d, 1962.





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	1.	GAVRILOV, A. P.	
	2.	USSR (600)	
	4.		
	7.	. Growth of pine plantings according to forest type on the right bank of the Volga in Yul'uanov Province. Les. khoz. 6 No. 1, 1953.	
	9.	Monthly List of Russian Accessions, Library of Congress, May 1953, Unclassified.	

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#### "APPROVED FOR RELEASE: 08/23/2000

#### CIA-RDP86-00513R000514420019-5

C'ACRITORNUSTENKO, I.G., akkumulyatorshchik; GAVRIIOV, A.P., akkumulyatorshchik,

Our method of reconditioning storage batteries. Elek. i tepl.
tinga no.3:32-33 Mr '57.

1. Elektrodepo, Leningrad. Finlyandskoy Oktyabr'skoy dorogi.
(Storage batteries)

GAVRILOV, A. P., Engr. PA 152T. 7 Oct 49 USSR/Engineering - Welding Equipment "Welding of Important Structures at the Staro-Kramatorsk Machine-Building Plant imeni Ordzhonikidze," A. P. Gavrilov, Engr, 5 1/2 pp "Avtogen Delo" No 10 Describes use of welding in following fields: building structures, cranes, gears, rolling equipment, forging and press equipment, metallurgical equipment, pit head gear, hydraulic engineering installations, boilers, and reservoirs. Includes three drawings, and ten photographs. 152727

APPROVED FOR RELEASE: 08/23/2000 CIA-RDP86-00513R000514420019-5"

GAVRILOV, A. P.

Izgotovienie barabana shakhtnoi elektropod"emnoi mashiny. (Vestn. Mash., 1950, no.8, p. 46-47)

Refers to "Staro-Kramatorskii" plant.

Manufacturing the drum of an electric mine hoisting machine.

DLC: TNL. VL

SO: Manufacturing and Mechanical Engineering in the Soviet Union, Library of Congress, 1953.

GAVRILOV, A.P.

USSR/Engineering - Welding

May 51

"Constructing the Welded Bridge of an Ore-Coal Reloader," A. P. Gavrilov, Engr

"Avtogen Delo" No 5, pp 14-18

Reloader designed as bridge crane was constructed for the 1st time by welding method, at Staro-Kramatorsk Mach Bldg Plant imeni Ordzhonikidze in 1948. Bridge length is 137.35 m. Productive capacity 500 tons/hr of ore and 400 tons/hr of coal. Describes procedure of fabrication and outlines shortcomings, eliminated in construction of subsequent bridges.

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APPROVED FOR RELEASE: 08/23/2000 CIA-RDP86-00513R000514420019-5"

G:VRILOV, A. P., Eng.

Welding of metal construction at the Ordzhonikidse SKMZ plant. Avtog. delo
23, No 5, 1952.

GAVRILOV, AP., SERDYUKOV, P. I.

Work experience of the welders of the plant department of the Scientific Institute of the Society of Engineers and Technicians at the Ordzhonikidze SKMZ plant. Avtog. delo. 23, No 5, 1952.

APPROVED FOR RELEASE: 08/23/2000 CIA-RDP86-00513R000514420019-5"

GAVRILOV, A.P., inzhener.

Production of welded locomotion mechanisms for ore and coal loaders at the Ordshonikidze SKMZ. Vest.maeh.34 no.1:83-85 Ja (MIRA 7:2)

(Mining machinery)

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SHEYDIN, Ya.G.; BOYDA, Sh.A.; GAVRILOV, A.P.

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Use of borehole radiometric surveys in searching for some types of rare metal deposits. Razved. i okh. nedr 26 no.7:48-51 Jl '60. (MIRA 15:7)

1. Ministerstvo geologii i okhrany nedr SSSR.
(Metals, Rare and minor) (Radioactive prospecting)

#### "APPROVED FOR RELEASE: 08/23/2000

#### CIA-RDP86-00513R000514420019-5

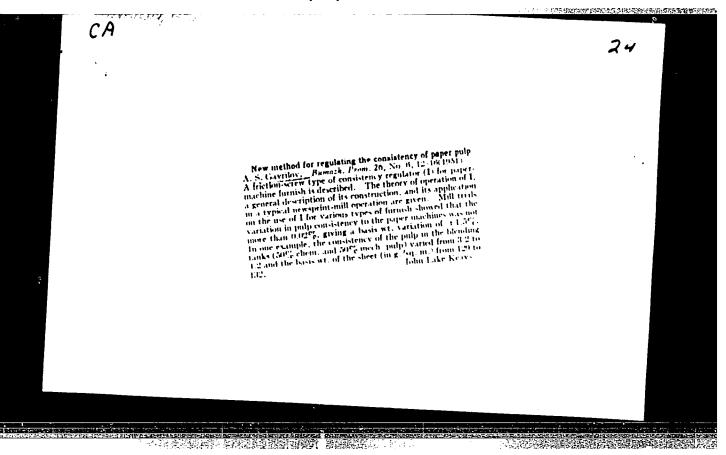
PLETNEVA, N.I.; YELINA, N.A.; DENISOV, A.P.; GAVRILOV, A.P.

Accessory rare-earth silicate-apatite from pegmatites. Mat.
po min. Kol'. poluost. 2:123-132 '62. (MIRA 16:4)

(Kola Peninsula—Apatite)

(Kola Peninsula—Pegmatites)

APPROVED FOR RELEASE: 08/23/2000 CIA-RDP86-00513R000514420019-5"



Viscosimeter for determining fiber grinding in paper pulp.
Bum. prom. 36 no.11:26-27 N '61. (MIRA 15:1)
(Viscosimeter)
(Papermaking machinery)

GAVRILOV, A.S., podpolkovnik meditsinskoy sluzhby; TSIVILASHVILI, A.S., kand. med.nauk, podpolkovnik meditsinskoy sluzhby; SHAPOSHNIKOV, A.I., kand. tekhn.nauk, inzh.-podpolkovnik

Fitting of the pressure suit. Voen.-med.zhur. no.1:65-67 (MIRA 18:10)

GAVRILOV, A. V.

USSR/Miscellaneous - Contests

Card 1/1

Pub. 133 - 18/23

Authors

Gavrilov, A. V., and Kanevsky, S. G.

Title

Results of a contest for the best suggestions in the field of communications

Periodical

Vest. svyazi 8, 26-27, Aug 1954

Abstract

The results of the 1954 annual technical contest arranged by the Ministry of Communications for the best suggestions made in the communications field are described. The majority of suggestions were made in the field of telegraph communications and radio broadcasting; improved methods applicable to intraregional communications also were proposed. Frize-winning suggestions and

winners are listed.

Institution:

Submitted

CIA-RDP86-00513R000514420019-5" **APPROVED FOR RELEASE: 08/23/2000** 

GAVRILOV, A.V.; KANEVSKIY, S.G.

Results of the All-Union public review of efficiency work conducted in district communications offices. Vest.eviexi 14 no.4:29-30 Ap 154.

(Telecommunication)

(MIRA 7:6)

APPROVED FOR RELEASE: 08/23/2000 CIA-RDP86-00513R000514420019-5"

KANEVSKIY, S.G., otvetstvennyy red.; GAVRILOV, A. V., red.; KHELEMSKAYA, L.M., tekhn, red.

> [Efficiency promoters in regional communications centers] Ratsionalizatory raionnoi kontory sviazi. Moskva, Gos. izd-vo lit-ry po voprosam sviazi i radio, 1955. 33 p. (HIRA 11:9) (Telecommunication)

APPROVED FOR RELEASE: 08/23/2000 CIA-RDP86-00513R000514420019-5"

GAVRILOV, A.V AFANAS'YEV, Aleksandr Porfir'yevich; GUSEV, Simon Stepanovich; KRISTAL'NYY, Vladimir samoylovich; RAMENSKIY, Boris Nikolayevich, redaktor; ROZENBERG, Yakov Grigor yevich; SILIN, Konstantin Fedorovich; GAVRILOV, A.V., redaktor; SOKOLOVA, R.Ya., tekhni-

cheskiy redaktor.

[Establishing electric and radio communication facilities in the district] Ekspluatatsiia sredstv elektrosviazi i radiofikatsii v raione. Moskva, Gos.izd-vo lit-ry po voprosam sviazi i radio, 1955. 187 p. (MLRA 8:12) (Telecommunication) (Radio)

APPROVED FOR RELEASE: 08/23/2000 CIA-RDP86-00513R000514420019-5"

GAVRILOV,A.V.

Conducting a competition for the best suggestion in the communication field. Vest.sviazi 15 no.9:26-27 S'55. (MIRA 8:12)

1. Nachsl'nik otdela izobreteniy Tekhnicheskogo upravleniya Ministerstva svyazi SSSR. (Telecommunication)

GAVRILOV, A V., inzhener.

Administrative aspects of inventions procedures and efficiency promotion in communication enterpirses. Izebr. v SSSR.l no.2:19-21 Ag '56.

(MERA 10:3)

Romevo shertcomings in the erganization of efficiency innevators'
work in communications enterprises. Vest.sviazi 16 no.7:30-31 J1
'56. (MLRA 9:9)

1.Nnchal'nik etdela izebreteniy Tekhnicheskege upravleniya Ministerstva svyazi SSSR.
(Telecommunication)

GAVRILOV, A.V.; KANKVSKIY, S.G.

Multiply the ranks of communications innovators. Vest. sviazi
17 no.5:27 My '57. (MLRA 10:5)

1. Nachal'nik otdela izobretenniy Ministerstva svyazi SSSR (for Gavrilov). 2. Zamestitel' predsedatelya komissii po massovomu rabochemu izobretatel'stvu i ratsionalizatsii TSentral'nogo komiteta profsoyuza rabotnikov svyazi (for Kanevskiy).

(Telecommunication)

APPROVED FOR RELEASE: 08/23/2000 CIA-RDP86-00513R000514420019-5"

Efficiency i. within in communications enterprises in the Urals, Signals and the Fre East. Vent. svient 17 no.6:26-17 Je 157. (1924 10:8)

1. Ensantital includedately Revised profesour isobretatel stad i rationalization in antellange keriteta profesoura syrazi (for Kanovskiy) 3. Profesi in Tennicheskogo attala finisterator syrazi Effor Kanovskiy) (for Kandat et al. Rischal'nik Ottela izobreteniy Ministerator anyazi addit (for Carallay).

(Siberia--Telecomunication)

AUTHOR: Gavrilov, A.V. 111-58-6-17/25

Keep on Improving the Rationalization Work in Communication Establishments (Neustanno uluchshat' ratsionalizatorskuyu

rabotu na predpriyatiyakh svyazi)

Vestnik Svyazi, Nr 6, 1958, p 27 (USSR) PERIODICAL:

More than 300 lectures on communication techniques were  $\varepsilon$ iven ABSTRACT:

in BSSR communication establishments during one year with the assistance of the Belorussiqn branch of the Nauchnatekhnicheskoye obshchestvo radiotekhniki i elektrosvyazi imeni A.S. Popova (The Scientific Technical Association of adio-Technics and Electrocommunications imeni A.S.

Popov). Totals given by the author shor that a 3 month contest resulted in an increase of rationalization suggestions.

TITLE:

ASSOCIATION: Otdel izobreteniy tekhnicheskogo upravleniya (The Invention

Department of the Technical Administration) of the USSR Mi-

nistry of Communications

Card 1/1 Communications - USSR 2. Communications -

Technique

CIA-RDP86-00513R000514420019-5" APPROVED FOR RELEASE: 08/23/2000

SHIPKOV, N.N.; GAVRILOV, A.V.

Stabilization process in the suspended layer of a polydisperse system. Nauch.dokl.vys.shkoly; energ. no.1:103-108 '59.

(MIRA 12:5)

1. Rekomendovana kafedroy tekhnologii vody i topliva Moskovskogo energeticheskogo instituta. (Colloids)

6 (2)

307/111 -59-4-17/25

AUTHOR:

Gavrilov, A. V., Chief

TITLE:

The Creative Thoughts of Inventors and Efficiency Experts Must Serve the Seven-Year Plan (Tvorcheskuyu mysl' izobretateley

i ratsionalizatorov - na sluzhbu semiletke)

PERIODICAL:

Vestnik svyazi, 1959, Nr 4, p 26 (USSA)

ABSTRACT:

Problems of the further development of inventions and efficiency suggestions will be discussed at the congress of the Vsesoyuznoye obshchestvo izobretateley i ratsionalizatorov (All-Union Society of Inventors and Efficiency Experts must) which will take place in May, 1959. The author repeats the tasks of the Seven-Year Flan which are

author repeats the tasks of the Jeven-Year Plan which are to be achieved by the communication workers, and emphasizes that in the overwhelming majority of new devices, the inventions and suggestions of communication workers were used. The work of these inventors is of great importance to the Seven-Year Plan. In 1958, about 50,000,

or 84%, out of a total of 55,900 suggestions of communi-

Card 1/2

cation employees were realized.

30V/111.-59-4-17/25

The Creative Thoughts of Inventors and Efficiency Experts Must Serve the Seven-Year Plan

ASSCCIATION: Otdel izobreteniy Tekhnicheskogo upravleniya Ministerstva svyazi SSSE (Section for Inventions of the Technical Administration of the USSR Ministry of Communications).

Card 2/2

TARAKANOVA, M.S., starshiy inzh.; GAVRILOV, A.V.

Automatic control in telephone and telegraph communications; scientific and technical conference of the communication workers of Kazakhstan and Central Asia. Vest. sviazi 21 no.9:17-18 S '61. (MIRA 14:9)

1. Glavnoye upravleniye mezhdugorodnoy telegrafno-telefonnoy svyazi Ministerstva svyazi SSSR. 2. Nachal'nik otdela izobreteniy Tekhnicheskogo upravleniya Ministerstva svyazi SSSR (for Gavrilov).

(Telecommunication—Employees)
(Telephone—Congresses) (Telegraph—Congresses)

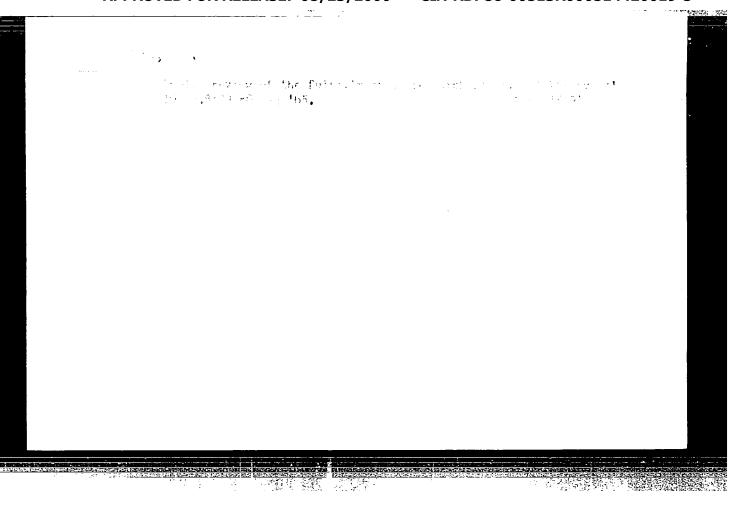
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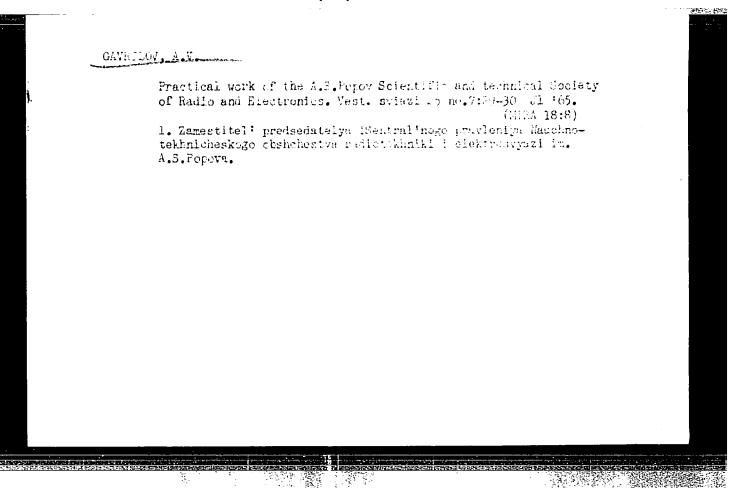
GAVRILOV, A.V.

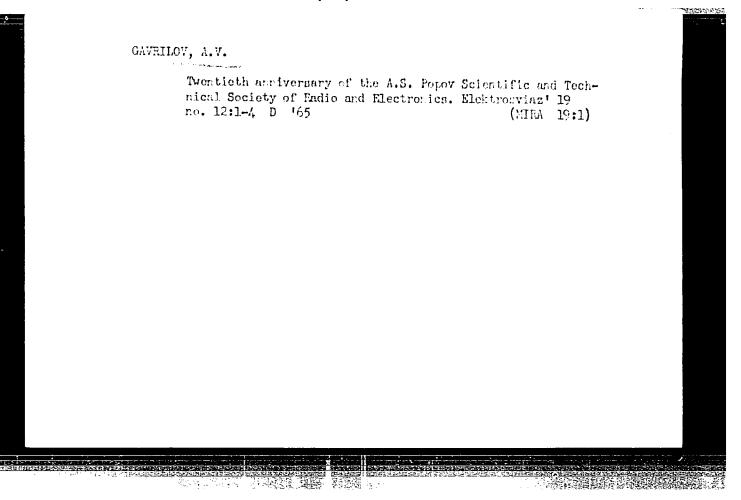
More active participation in the creation and use of new equipment in industry. Radiotekhnika 19 no.11:71-72 N 164.

(MIRA 18:2)

1. Deystvitel'nyy chlen Nauchno-tekhnicheskogo obshchestva radio-tekhniki i elektrosvyazi imeni A.S. Popova.







GAVRILOV, A. Ya.

GAVAJIOV, A. Ya. - "Certain Geochemical Characteristics of the Oil Deposits of the Apsheron Peninsula." Sub 19 Dec 52, Moscow Order of Lenin State U imeni M. V. Lomonosov. (Dissertation for the Degree of Candidate in Geological and Mineralogical Sciences).

SO: Vechernaya Moskva January-December 1952

APPROVED FOR RELEASE: 08/23/2000 CIA-RDP86-00513R000514420019-5"

GAVRILOV, A.Ya.; DRAGUNSKAYA, V.S.

Condensate with an aromatic base found in eastern Turkmenistan.

Izv.AN Turk.SSR.Ser.fiz.-tekh., khim.i geol.nauk no.3:111-113

163. (MIRA 17:3)

1. Turkmenskiy filial Vsesoyuznogo neftegazovogo nauchno-issle-dovatel'skogo instituta.

GAVRILOV. A.Ye.; ROSSOVA, S.M., redaktor; POPOV, N.D., tekhnicheskiy redaktor

[Operation of small capacity hydroelectric power stations]

Ekspluatatsiia elektrostantsii maloi moshchnosti. Moskva, Gos.
nauchno-tekhn. izd-vo lit-ry po geologii i okhrane nedr, 1954.

15 p. (MIRA 8:1)

(Hydroelectric power stations)

APPROVED FOR RELEASE: 08/23/2000 CIA-RDP86-00513R000514420019-5"

GAVRILOV, A.Ye.; ROSSOVA, S.M., redaktor; POPOV, N.D., tekhnicheskiy redaktor.

[Operation of low-capacity electric power stations] Ekspluatatsiia elektrostantsii maloi moshchnosti. Moskva, Gos. nauchno-tekhn. izd-vo lit-ry po geologii i okhrane nedr. 1954. 14 p. (MLRA 7:11) (Electric power plants)

APPROVED FOR RELEASE: 08/23/2000 CIA-RDP86-00513R000514420019-5"

GAVRILOV, A.Z

14(5)

sov/92-59-1-28/36

AUTHOR: None given

TITLE: (Photograph by A. Bryanov, TASS photographer)

PERIODICAL: Neftyanik, 1959, Nr 1, p 32 (USSR)

ABSTRACT: This photograph, reproduced under the heading "Automatic Device for Pumping Petroleum Out of a Gaging Tank", shows A.Z. Gavrilov, operator of the Mukhanovo oilfield. He is controlling the operation of the automatic device introduced by the Pervomayneft' Administration for pumping petroleum out of a gaging tank.

Card 1/1

GAVRILOV, B.

"Influence of rosin extraction on growth" Tr. from the Russian p. 89. (Analele Romano-Sovietice. Seria Silvicultura-Industrial Lemnului Si Hartieli. Series a II-a, vol. 7, no. 16, Nov./Dec. 1952. Bucresti.)

EAST EUROFEAN Vol. 2, No 9
So: Monthly List of Wilder Accessions, Library of Congress, September 1953, Uncl.

GAVRILOV, B.; LADIYEV, R.; LOBURENKO, A.; CHUGAY, A.; SHUGUROV, V. (Kiyev)

Use of new technology reduces fire hazards. Pozh.delo 6 no.10:28

0 '60. (MIRA 13:10)

(Rubber industry—Fires and fire prevention)

APPROVED FOR RELEASE: 08/23/2000 CIA-RDP86-00513R000514420019-5"

GAYRILOV, B.

Students acquire trade vocations. Sov.torg. 34 no.5:35-38 My '61. (MIRA 14:5)

l. Nachal'nik upravleniya uchebnykh zavedeniy Ministerstva torgovli RSFSR.

(Distributive education)

APPROVED FOR RELEASE: 08/23/2000 CIA-RDP86-00513R000514420019-5"

GAVRILOV, Boris Aleksandrovich, kand. istor. nauk; KAPIUNOV, A.S., red.; BERLOV, A.P., tekhn. red.

[Struggle of the Communist Party to strengthen the union of working class and peasantry during the restoration of the national economy 1921-1925] Bor'ba Kommunisticheskoi partii za ukreplenie soiuza rabochego klassa s krest'ianstvom v period vosstanovleniia narodnogo khoziaistva (1921-1925 gg.). Moskva, Izd-vo "Znanie," 1958. 45 p. (Vsesoiuznoe obshchestvo po rasprostraneniiu politicheskikh i nauchnykh znanii. Ser. 1, no.21). (MIRA 11:10) (Russia--Economic policy)

APPROVED FOR RELEASE: 08/23/2000 CIA-RDP86-00513R000514420019-5"

NATDICH, I.M., kand. tekhn. nank; MCRGNLIS, Male. konj. tekhn. naur.
GAVRILOV, B.A., 1nzh.

Present-dey highly efficient crushing equipment. Stroic sat.
10 no.2:35-38 P '64.

(NIRA 17:6)

		- N A a l'ine	noteov. A.	G.: Barer.	A. S.: /	7	
NUTHOR: Parin, V Isabayeva,V. A.; Korohova, A. A.; Gavrilov, B. A.						••	
OKG: none	•					ļ	
TITLE: Establisi preparation and of or Space Medicine	training of cosm held in Moscow	onauts (l'aper from 24-27 h	prosence •		•	<b>ems</b>	3
SOURCE: Konferent kosmicheskoy med Koscow, 1966, 30	ntsiya po proble itsin <b>y. (Pr</b> oble	mam koemichosi	cov moditsi:	ſA" TAOΩ• γ	LTOOTANG		,
TOPIC TAGS: hyp		ude physiology	, alpine a	cclimatisat	ion,.		
	e present study			•	• •		
1. Conduct process of accl	complex physic imatization at a	ological and cl ltitudes of 33	inical inve 00 to 4100 i	stigations (	iuring the	- '	
Card 1/4				<u>·</u>			
			antan war en e		•		,

ACC NR. AT6036616

- . 2. Study the influence of alpine acclimatization on human tolerance to extremal spaceflight factors.
- 3. Study the comparative resistance of alpine inhabitants, valley inhabitants, and alpinists to extremal factors.
- 4. Develop a system of alpine acclimatization for cosmonauts and issue recommendations on the application of alpine acclimatization for the preparation and training of cosmonauts and on the creation of alpine camps for cosmonauts.

Acclimatization was conducted at the alpine station of the Kirgiz State Medical Institute (Tuya-Ashu mountain pass, altitude, 3300 to 4100 m). A total of 28 male subjects were studied of whom: 11 were indigenous to alpine conditions as farmers of the Tien-Shan--Pamir region (2000 to 2500 m), 11 were valley inhabitants, and 6 were accomplished alpinists. The following indices were studied under alpine conditions and using test stands: Functional condition of the central nervous system; external respiratory and cardiovascular system function; some biochemical indices; the state of the blood coagulation and anticoagulation capacity; and in separate experiments; cerebral circulation using an electroplethysmographic method.

**Card** 2/4

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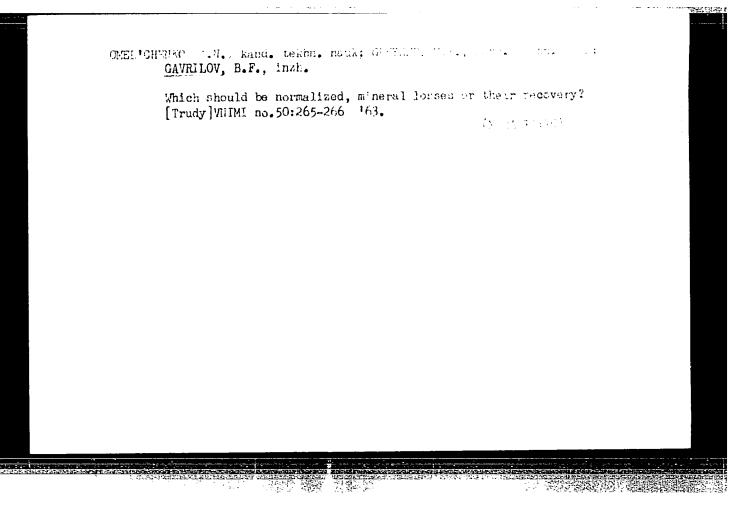
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ACC NRL ATS036616

The experiments showed that after 45 days of alpine acclimatization, human tolerance to prolonged, back-chest accelerations (8 to 10 G) was improved. This was reflected in a relative increase in the amplitude of rheoencephalograms for all subjects and consequently, improved cerebral circulation and lowered pulse rate. EKG changes indicated that the heart was undergoing less strain after alpine acclimatization. After residence in alpine conditions, a decrease in basic metabolic indices and a slight increase in arterial blood oxygen saturation was noted in alpine inhabitants during accelerations.

A study of heat tolerance showed that there was a drop in basic physiological parameters (heat accumulation and basal metabolism) after alpine acclimatization in all three groups. These changes were more pronounced in indigenous alpine inhabitants and less pronounced in alpinists.

The resistance of the organism to hypoxia before and after acclimatization was studied using two approaches; exposure to a certain "altitude ceiling" in a pressure chamber and a method of reverse respiration using a spirograph first filled with atmospheric air. In the latter case as a measure of oxygen consumption, oxygen content under the bell jar of the spirograph decreased and exhaled carbon dioxide was chemically absorbed.



CMEL CHENKO, A.N.; GLEYZER, M.I.; GAVRILOV, B.F.

Calculation of losses of ore in the mine in induced block caving. Razved. i okh. nedr 29 no.7:44-46 Jl '63. (MIRA 16:9)

1. Vsesoyuznyy nauchno-issledovatel'skiy marksheyderskiy institut.
(Mining engineering)

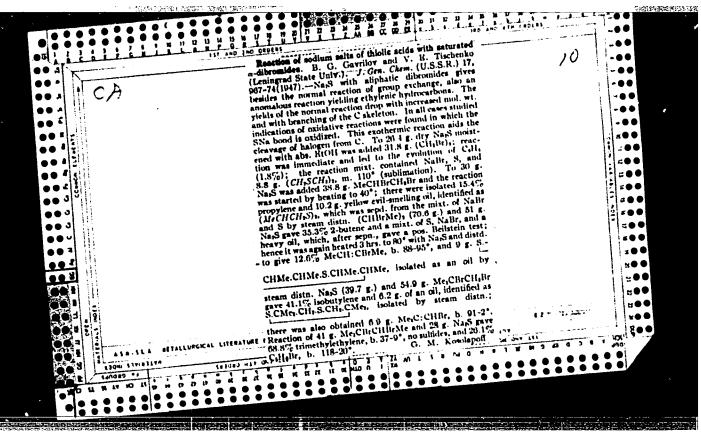
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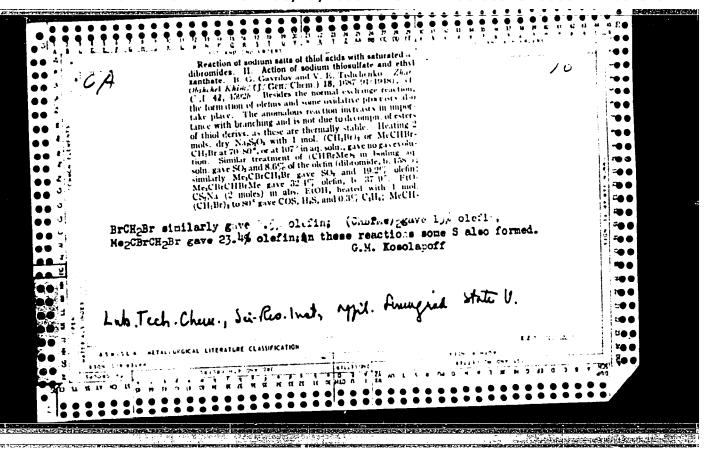
"对话是我**学事就是这个** 

GIEYZER, M.I., kand. t khn. nauk; GAVRILOV, B.F., inzh.; VODENIKOV, Yu.N., inzh.

Certain problems in sampling and estimating the average contents of the useful mineral component in the Zyryanovsk Combine lead mines. [Trudy]VNIMI no.50:267-278 '63. (MIRA 17:10)

APPROVED FOR RELEASE: 08/23/2000 CIA-RDP86-00513R000514420019-5"





GAY: 110V, B. G.

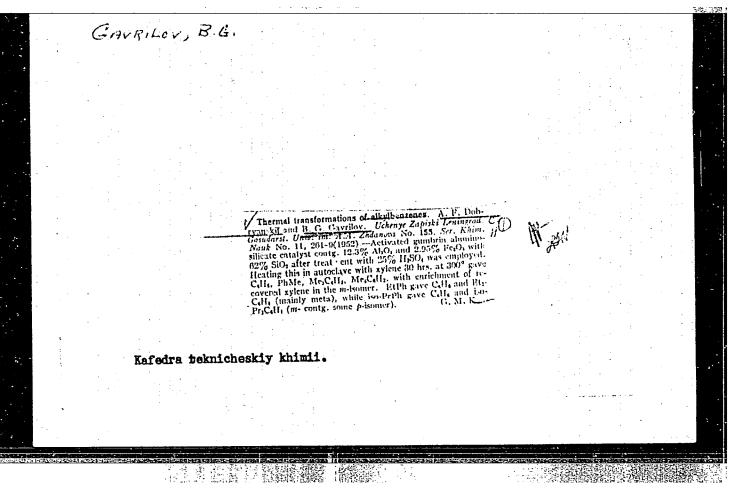
32383 DOBEYANSKIV, A. F. 1 CAVRILOV, B. G. Kateliticheskire Frevrasheniya
Uglorddorodov Nefti. Nauch. Dyulleten' Deningr. Gos. Un-te im. Zhderove,
No. 23, 1949, s. 19-19 Dibliogri s. 18-19

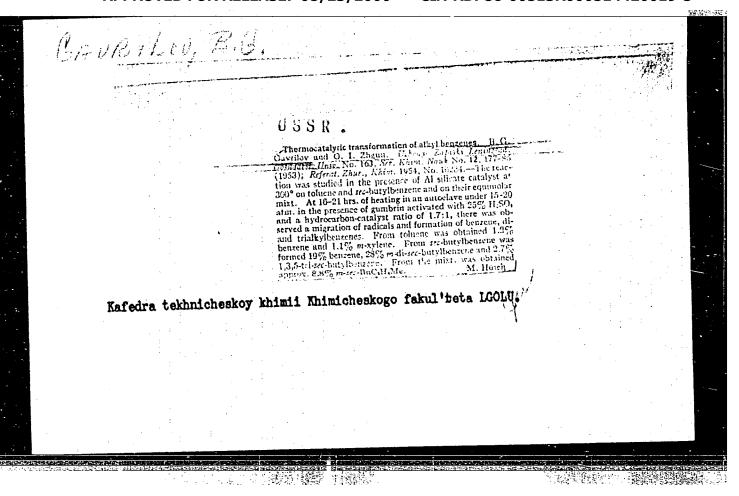
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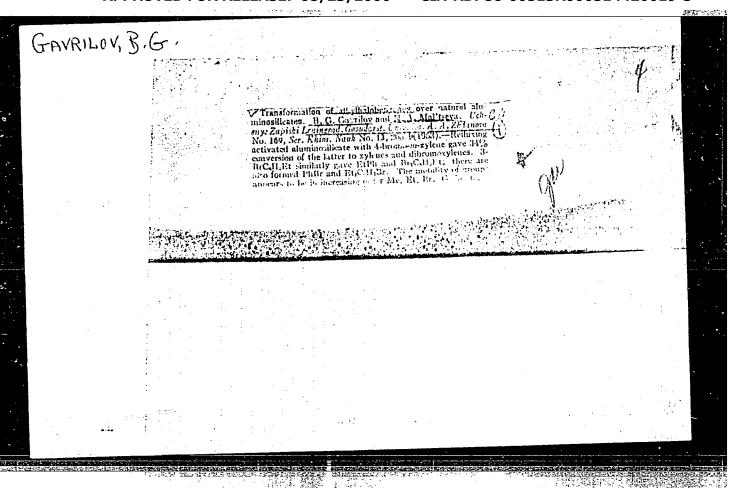
DOBRIANSKIY, A.F., professor; GAVRILOV. B.Q., dotsent.

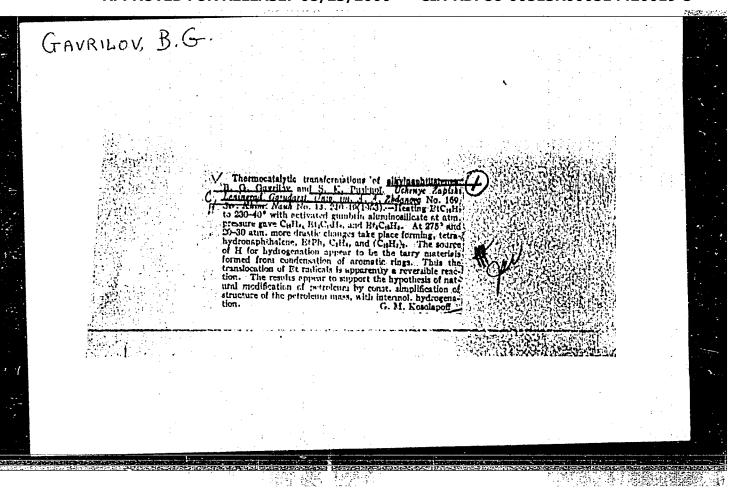
Gatalytic conversions of petroleum hydrocarbons. Nauch.biul. Len.
un. no.23:13-19 '49. (MLRA 10:4)

1. Kafedra tekhnicheskoy khimii.
(Petroleum) (Hydrocarbons)









GAVRILOY, B.G.

USSR/Chemistry - Catalytic conversion

Card 1/1 Pub. 151 - 22/38

Authors

: Gavrilov, B. G., and Nikitina, E. N.

Title

: Thermocatalytic conversions of butylnarhthaline

Periodical: Zhur. ob. khim. 24/2, 303-307, Feb 1954

Abstract

: Thermocatalytic conversion of mono- and di-secondary-butylnaphthalins over a natural aluminum silicate catalyst was investigated. In addition to the reactions leading to the displacement of the immutable fatty radicals, which are typical for alkylbenzenes, numerous other reactions were also observed. The most characteristic of these reactions were the formation of diethylhenmene. tetrahydronaphthalin, dinaphthyl and butane which take place through the everdistribution of hydrogen, and the formation of octane (3,4-dimethylhexane) due to the combination of butyl radicals. The results obtained confirm the general law regarding the processes of petroleum conversion in nature: aromatic hydrocarbons - naphthene hydrocarbons - methane hydrocarbons. Hine references: 1-English and 8-USSR (1923-1953). Tables.

Institution:

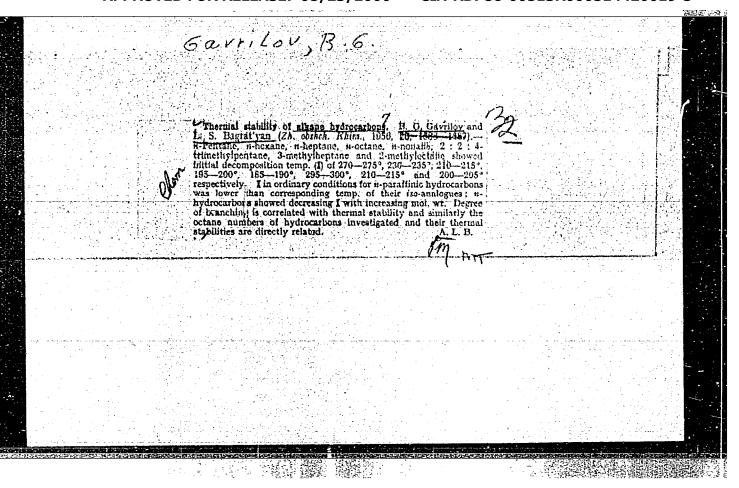
The A. A. Zhdanov State University, Leningrad-

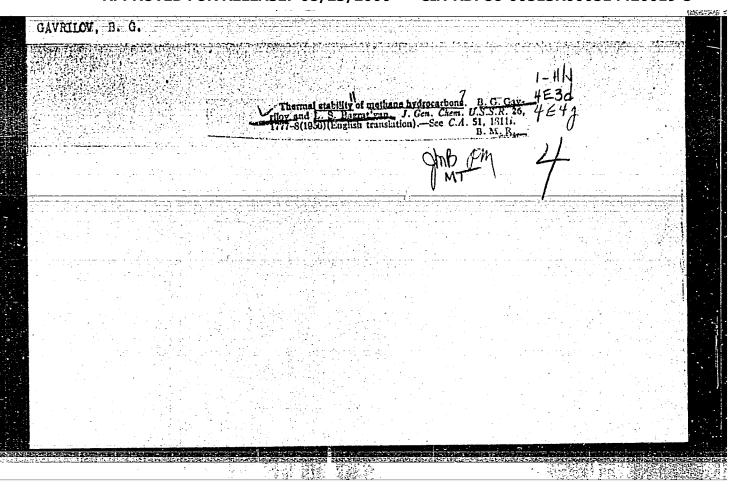
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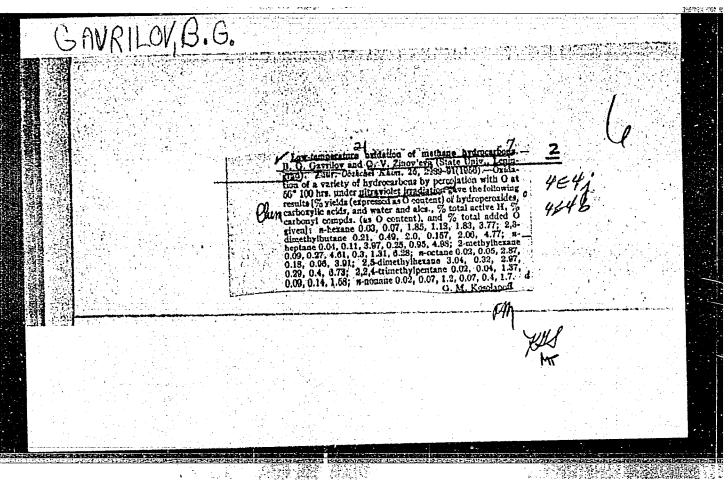
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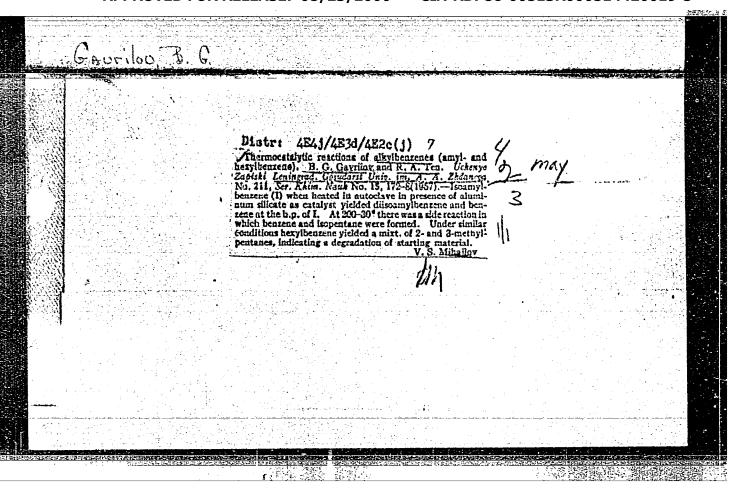
September 5, 1953

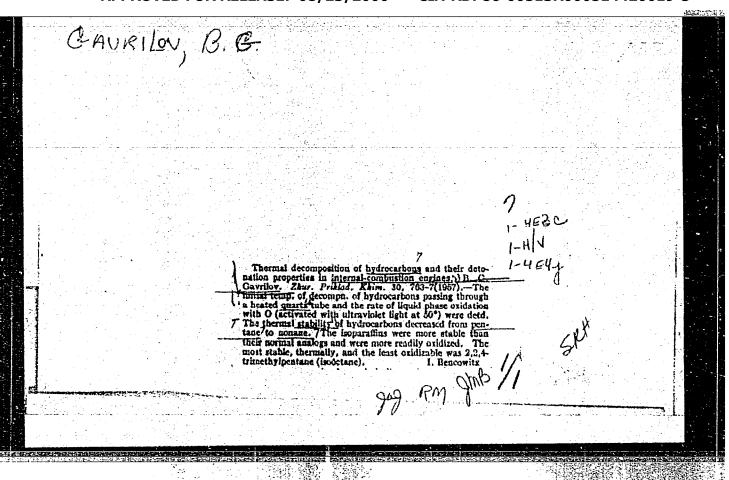
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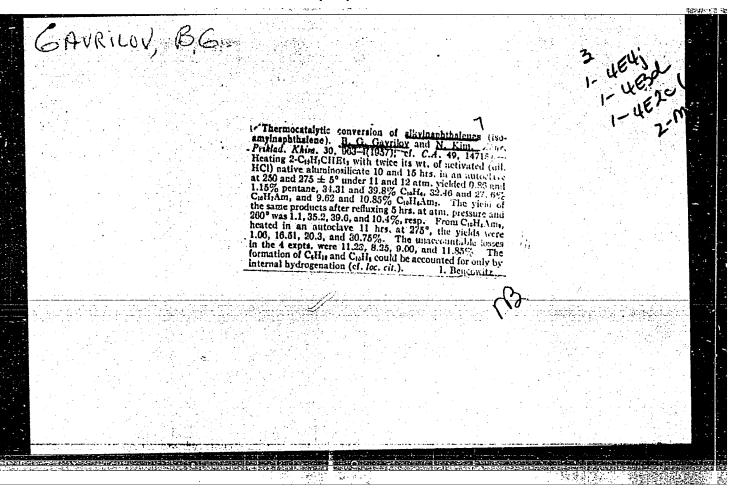












Oxidizing properties of alkylmaphthalenes. Izv. vys. ucheb.
zav.; neft' i gaz no. 5:93-95 '58. (MIRA 11:8)

1. Leningradskiy gosudarstvennyy universitet im. A.A.Zhdanova.
(Naphthalene)
(Oxidation)

APPROVED FOR RELEASE: 08/23/2000 CIA-RDP86-00513R000514420019-5"

GAVRILOV, V.G.; VELICHKO, S.A.

Effect of the preliminary thermal destruction on exidizability of methane hydrocarbons. Zhur. ob. khim. 28 no. 8:2100-2101 Ag '58.

(MIRA 11:10)

Leningradskiy gosudarstvennyy universitet.
 (Methane)
 (Oxidation)

AUTHORS:

Gavrilov, B. G., Buzanov, M. I.

sov/79-28-10-20/60

TITLE:

Thermocatalytic Transformations of  $\infty$ -Methyl Naphthalene (Termokataliticheskiye prevrashcheniya  $\infty$ -metilnaftalina)

PERIODICAL:

Zhurnal obshchey khimii, 1958, Vol 28, Nr 10, pp 2723-2724; (USSR)

ABSTRACT:

The decomposition of alkyl naphthalene at a higher temperature is of interest for the chemical nature of the cracking process of hydrocarbons (Ref 1). The transformations of the alkyl naphthalenes at lower temperature and with activated loams offered some very interesting reactions of these hydrocarbons that are in direct relation to the transformations of petroleum in nature (Refs 2, 3). The  $\propto$ -methyl naphthalene was used for the experiments. 400 gr of it were heated in the autoclave with the same quantity of activated loam ("Gumbrine") at 350° for 8 hours with the pressure increasing to 31 atmospheres absolute pressure; 8 m<sup>3</sup> gas of the following composition were obtained:

Card 1/3

Thermocatalytic Transformations of < -Methyl Naphthalene SOV/79-28-10-20/60

The specific weight was 0,000723 gr/cm<sup>5</sup>. The liquid product of the catalysis was extracted together with the catalyst by benzene. After the solvent had been driven off the fractions mentioned in the table were separated by distillation. The transformation of ~-methyl naphthalene amounted to 69,2 %. The \$ -methyl naphthantene fraction was oxidized with 5 % nitric acid into  $\beta$  -naphthoic acid. After filtration and re-crystallization a compound was obtained that had a melting point of 180,50. The final products were methane, naphthalene,  $\hat{\beta}$ -methyl naphthalene, dimethyl naphthalene, and dinaphthyl . The formation of naphthalene and dimethyl naphthalene is explained by the reaction  $2C_{10}H_{7}CH_{3} \rightarrow C_{10}H_{8}+C_{10}H_{6}(CH_{3})_{2}$ , which is normal under these conditions. The results of the experiments prove the mechanism of the petroleum processes in the earth, which on the one hand points to the simplification of the petroleum material to the methane, and on the other hand to the complex formation of the highly condensed hydrocarbon. There are 1 table and 3 references, 3 of which are Soviet.

Card 2/3

Thermocatalytic Transformations of  $\infty$ -Methyl Nachthalene -307/79-28-10-20/60

ASSOCIATION: Leningradskiy gosudarstvennyy universitet

... (Leningrad State University)

SUBMITTED: July 29, 1957

Card 3/3

5(3) AUTHORS:

Gavrilov, B. G., Vol'nova, I. S

SOV/54-59-1-15/25

TITLE:

A Study of the Equilibrium of Reactions of Radical Displacements

of the Isopropylbenzene (Izucheniye ravnovesiya reakteli

peremeshcheniya radikalov u izopropilbenzola)

PERIODICAL:

Vestnik Leningradskogo universiteta. Seriya fiziki i khimii,

1959, Nr 1, pp 107-11! (USSR)

ABSTRACT:

Some equilibriums of reactions of radical displacements at hydrocarbons in dependence on temperature, duration of reaction, and the presence of various catalysts have already earlier been investigated (Refs 1-7). These investigations are apt to supply a number of indications concerning the formation process of petroleum in nature. The equilibrium of reactions of radical displacements at the isopropylbenzene was therefore investigated. Aluminum silicate activated by HCl was used as a catalyst The isopropylbenzene used exhibited the following indices: boiling

point =  $152-153^{\circ}$ ,  $d_{4}^{20} = 0.8580$ ,  $n_{D}^{20} = 1.4921$ . Investigation re-

Card 1/2

sults are given in table 1, which shows the values of the indices at various heating periods and at various temperatures in the

sov/54-59-1-15/25

A Study of the Equilibrium of Reactions of Radical Displacements of the Isopropylbenzene

> range of from 152-250°. In all investigations two reactions were observed: the chief reaction  $2C_6H_5C_3H_7 \stackrel{\text{def}}{=} C_6H_6 + C_6H_4(C_3H_7)$  and the secondary reaction  $2C_6H_4(C_3H_7)_2 = C_6H_5C_3H_7 + C_6H_3(C_3H_7)_3$ The equilibrium in the chief reaction was attained after thirtyminute heating. In the secondary reaction also triisopropylbenzene was observed besides disopropylbenzene. The equilibrium constant was computed for the reactions. The expression found for the temperature dependence of the equilibrium constants in the temperature range of from 175-250° has the following form: - 2 1832. There are 2 figures, 2 tables, and 5840  $\log K_{p} = \frac{5840}{4.576 \text{ T}}$

7 Soviet references.

SUBMITTED:

December 11, 1958

Card 2/2

近近近海岸的军事的建设的过程在1000年的14世界的14年14日 (2012年14年)

SOV/152-59-3-16/25 5(3), 11(4) Gavrilov, B. G. AUTHOR: The Oxidation of Olefins in Liquid Phase (Zhidkofaznoye TITLE: okisleniye olefinov) Izvestiya vysshikh uchebnykh zavedeniy. Neft' i gaz, 1959, PERIODICAL: Nr 3, pp 75-77 (USSR) An investigation was carried out of hexene-1, heptene-1, octene-1 (produced by dehydrogenation of the corresponding ABSTRACT: primary alcohols over active aluminium oxide at 330-340°), further 2-methyl hexene-2 and 2,5-dimethyl hexene-2 (produced by reaction of acetone with butyl magnesium bromide and isoamyl magnesium bromide respectively and dehydrogenation of the obtained alcohols by boiling with iodine). Oxidation of all olefins was carried out under the same conditions at 50° C by means of oxygen in ultraviolet light. In the oxidized hydrocarbons the hydroperoxydes were stannometrically determined, the acids titrimetrically, the active hydrogen according to the method by Terent'yev and the determination of the carbonyl compounds was carried out according to the method with the Beckmann-spectrophotometer. In the case of normal olefins C6 - C8 oxidizability decreases according to the Card 1/2

The Oxidation of Olefins in Liquid Phase

SOV/152-59-3-16/25

homologue series; it is, however, higher than that of the saturated hydrocarbons. The iso-olefins are more easily oxidizable than their n-analogues. An unexplicable phenomenon remains the high octane number of all olefins as compared to their saturated analogues. It is most probable that the primary process of detonation is not oxidation, but a thermal destruction of the hydrocarbon molecules. As the olefins are more thermostable due to their double bond, in spite of their more easily achieved oxidizability, they have a lesser tendency towards destruction and consequently also towards detonation. There are 3 tables and 5 references, 3 of which are Soviet.

ASSOCIATION:

Leningradskiy gosudarstvennyy universitet im. A. A. Zhdanova

(Leningrad State University imeni A. A. Zhdanov)

SUBMITTED:

June 20, 1958

Card 2/2

GAVRILOY, B.G.; ROGOZINA, Ye.A.

Low-temperature exidation of alkyl benzenes. Izv.vys.ucheb.

zav.: noft' i gaz 2 no.11:95-97 '59. (MIRA 13:4)

1. Leningradskiy gosudarstvennyy universitet im. A.A.

Zhdanova. (Benzene)

GAVRILOV, B.G.; VOL'NOVA, I.S.

Investigation of the equilibrium of the radical displacement reaction in isopropylbenzene. Vest, LGU 14 no.4:107-111 '59.

(Cumene) (Radicals (Chemistry))

(Cumene) (Radicals (Chemistry))

CIA-RDP86-00513R000514420019-5

0.11.0

77 5 207, 70-50-2-45/70

AUTHORS:

Gavrilov, B. G., Andreyeva, L. P.

TITLE:

Thermal Conversions of Isomeric Kylenes Over Clays

PERIODICAL:

Zhurnal obshoney khimii, 1960, Vol 30, Mr 8, PP

ეს3-ესს (USSR)

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: TUARTE &

This article deals with the study of therms-catalytic conversions of Isomeric xylenes over slays. The experiments were conducted over activated clay (gumbrin) at 300°C and 30 atm. The neating time was 10 hr. Amounts of the reaction products were determined by means of infrared absorption spectra in the 700-800 cm<sup>-1</sup> range. Toluene and mesitylene were determined by specific weight, boiling temperature, and refraction coefficient. Results of the conversions are: for 0-xylene

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### CIA-RDP86-00513R000514420019-5

Thermal Conversions of Isomeric Xylenes

Over Clays

Table 1.

Key to Table 1: (1) fraction; (2) hydrocarbon; (3) yield, (in %); (4) narrow fraction temperature (5) residue; (6) losses; (7) benzene; (8) toluene; (9) xylenes; (10) mesitylene.

a	(2)	(3)	(4)	d,ħ	n <sub>o</sub> k:
79— 80°	(7) (3) (9) (10) —	0.25 16.5 37.8 8.45 1.45 5.55	79.4° 108.4—109 135—145 163.6—163.9	0.8657 0.8663 —	1.5002 1.4959 1.5040

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### CIA-RDP86-00513R000514420019-5

Thermal Conversions of Isomeric Xylenes Over Clays 77097 304/79-30-2-4<mark>8/7</mark>8

for m-xylene

Table 2.

Key to Table 2: (1) fraction; (2) hydrocarbon; (3) yield, (in %); (4) harrow fraction temperature; (5) residue; (6) losses; (7) bennene; (8) toluene; (9) xylenes; (10) mesitylene.

(1)	(.7)	(3)	(4)	d. 20	21 np
79—80°	(7) (3) (9) (10) - -	0.2 12.9 71.2 9.90 0.2 5.6	79.29 108.5 – 109 135.5 – 145 164.5 – 165.6 –	0.8650 0.8637	1.5000 1.1955 — 1.5037 —

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# CIA-RDP86-00513R000514420019-5

Thermal Conversions of Isomeric Xylenes Over Clay

77°07 307/70-30-2-40/78

for p-xylene

Table 3.

Key to Table 3: (1) fraction; (2) hydrocarbon; (3) yield, (in %); (4) narrow fraction temperature; (5) residue; (6) losses; (7) benzene; (8) toluene; (9) xylenes; (10) mesitylene; (11) durene.

(1)	(£)	(3)	(4)	d'1	$n_{D}^{20}$
79—80° 110—112 130—150 162—164 188—191 75) (U)	(7) (3) (9) (10) (11) -	0,2 14.5 61,3 13.0 2,1 0,3 7.6	79,5° 410,5° 411 165144 1635163,8 189,5190	0.8652 0.8674	1.5000 1.4055 1.5040

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Thermal Conversions of Isomeric Xylenes Over Clays 77897 SOV/79-30-2-48/78

Because of ease of the conversion and simplicity of product separation, this method can be used to obtain toluene, isomeric xylenes and polymethyl benzenes. The above conversions also apply to hydrocarbons with more complex radicals (up to amyl), since the reaction occurs because of splitting-off and migration of a paraffin radical. There are 3 tables; 3 figures; and 11 references, 8 Soviet, 2 U.S., 1 U.K. The 3 U.S. and U.K. references are: L. R. Herndon, E. E. Reid, J. Am. Chem. Soc., 50, 3065 (1928); C. C. Cannon, G. B. B. M. Sutherland, Spectroch. Acta, 4, 373 (1951); C. W. Young, R. B. Du Vall, N. Wright, Analyt. Chem., 23, 5 (1951).

ASSOCIATION:

Leningrad State University (Leningradskiy gosudar-

stvennyy universitet)

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Card 5/5

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AUTHORS:

Gavrilov, B. G., Gulin, Ye. I., Lesnikov, A. P., Tarasov,

A - K -

TITLE:

Preignition Conversion of Methane Hydrocarbons in

Internal Combustion Engines

PERIODICAL:

Zhurnal prikladnoy khimii, 1960, Vol 33, Nr 2, pp 421-424 (USSR)

ABSTRACT:

The preignition conversion of paraffins (n-hexane, n-heptane, n-octane, 2,3-dimethylpentane, 2,2,3trimethylbutane, and 2,2,4-trimethylpentane) were investigated in a one-cylinder Waukesha engine with adjustable compression ratio. The engine was heated up

by running normally on B-70 gasoline; the ignition

and the gasoline supply was then cut off and the flywheel turned by an electric motor until a predetermined upper temperature was reached. The supply of the investigated hydrocarbon was then turned on, the gaseous mixture of the hydrocarbons with air was aspired into the cylinder,

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